

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2012 Levee Inspection Results****Reclamation District No. 2062 Stewart**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	2.69
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/17/2012 - 5/17/2012			
DWR Inspector	Max Khashchuk			
Accompanied By	Michael Moncrief MBK			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 San Joaquin River				Left	2.69	05/17/2012 05/17/2012	Max Khashchuk	

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1			Earthen Levee	Operations & Maintenance Manuals	CR	A		°	°	2
						Ma		°	°	
DWR ID: DWR_RD2062_01_s_2012_2										
2			Earthen Levee	Emergency Supplies & Equipment	CR	A		°	°	5
						Ma		°	°	
DWR ID: DWR_RD2062_01_s_2012_5										
3			Earthen Levee	Flood Preparedness & Training	CR	A		°	°	8
						Ma		°	°	
DWR ID: DWR_RD2062_01_s_2012_8										
4	0.49	0.49	Earthen Levee	Animal Control	CR	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: 2 burrows, which may be cause of erosion at this location.	37.804807 ° -121.320754 °	37.804807 ° -121.320754 °	4 Y
						Ma				
DWR ID: DWR_RD2062_01_s_2012_4										
5	0.50	0.50	Earthen Levee	Erosion / Bank Caving	WS	M	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion taking place at edge of crown.	37.804716 ° -121.320511 °	37.804716 ° -121.320511 °	3 Y
						Ma				
DWR ID: DWR_RD2062_01_s_2012_3										
6	0.57	0.57	Earthen Levee	Erosion / Bank Caving	WS	M	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Levee crown is approximately 100' at this point.	37.805106 ° -121.319154 °	37.805106 ° -121.319154 °	6 Y
						Ma				
DWR ID: DWR_RD2062_01_s_2012_6										
7	0.81	0.81	Earthen Levee	Trim / Thin Trees	WS	N	T5 : Tree stumps.	37.804747 ° -121.315183 °	37.804747 ° -121.315183 °	7 Y
						Ma				
DWR ID: DWR_RD2062_01_s_2012_7										
8	0.91	0.91	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 08/23/2011: No significant changes observed on site. Vegetation on the slope. There is a bridge construction site just upstream of the erosion. The impact of the construction may need to be monitored.  09/07/2010: No significant changes observed on site. Sloughing of the existing rip rap revetment on the lower slope has developed into an erosion pocket. There is moderate annual grass growth on the slope. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: Per Michael Moncrief of MBK, site is scheduled for repair this year. 2009: Landside ground surface has been raised to the height of the levee crown; sloughing of the existing rip rap revetment on the lower slope that has created a pocket, exposing underlying soil; Site # is the same RM54.34, LM1.08; previously rated "M". 2006: Previously marked with stake. [2011 Site ID: RD2062U01RM54.14]	37.804080 ° -121.314060 °	37.804080 ° -121.314060 °	1 Y
						Ma				
DWR ID: DWR_RD2062_01_s_2012_1										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	2.69	05/17/2012 05/17/2012	Max Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
9	1.18	1.40	Earthen Levee	Crown Surface / Depressions / Rutting	CR	U Ma	C2 : Regrade the crown roadway for proper drainage. Inspector Comments: High shoulder and slope of road will cause deep ponding. Approximately 1' deep.	37.800147 ° -121.313703 °	37.797164 ° -121.313976 °	15 Y
DWR ID: DWR_RD2062_01_s_2012_15										
10	1.67	1.67	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma		37.793516 ° -121.315335 °	37.793516 ° -121.315335 °	10 Y
DWR ID: DWR_RD2062_01_s_2012_10										
11	1.83	1.83	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.791873 ° -121.313350 °	37.791873 ° -121.313350 °	11 Y
DWR ID: DWR_RD2062_01_s_2012_11										
12	1.83	1.83	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.791875 ° -121.312745 °	37.791875 ° -121.312745 °	16 Y
DWR ID: DWR_RD2062_01_s_2012_16										
13	1.85	1.85	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.791798 ° -121.312904 °	37.791798 ° -121.312904 °	12 Y
DWR ID: DWR_RD2062_01_s_2012_12										
14	2.10	2.10	Earthen Levee	Slope Stability	WS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Damage at hinge point appears to be caused by heavy equipment traffic.	37.793656 ° -121.309610 °	37.793656 ° -121.309610 °	13 Y
DWR ID: DWR_RD2062_01_s_2012_13										

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Crown
Category	Earthen Levee
Item	Animal Control

10/21/2011 Photo of burrow on crown, photo was taken day after inspection.

mkhashch\_s\_20120511\_184.jpg



Levee Mile Report Line	5
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

05/11/2011 Erosion at crown, vegetation shown at top of erosion is being supported by silt fence.

mkhashch\_s\_20120511\_182.jpg



Levee Mile Report Line	5
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

10/21/2011 Erosion at crown, issue first noted in Spring 2011 inspection.

mkhashch\_s\_20120511\_183.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	6
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

05/11/2011 Erosion begins at crown, stakes shown in photo are supporting a silt fence. Silt fence is supporting soil and vegetation at crown.

mkhashch\_s\_20120511\_185.jpg



Levee Mile Report Line	6
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

10/21/2011 Photo is taken from levee crown, issue has still not been addressed. Issue was noted in the Spring 2011 inspection.

mkhashch\_s\_20120511\_186.jpg



Levee Mile Report Line	8
Start Levee Mile	0.91
End Levee Mile	0.91
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion

mkhashch\_s\_20120511\_180.jpg



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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	8
Start Levee Mile	0.91
End Levee Mile	0.91
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the rip rap

mkhashch\_s\_20120511\_181.jpg



Levee Mile Report Line	9
Start Levee Mile	1.18
End Levee Mile	1.40
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

10/20/2011 Berm is forming on the waterside edge of the crown. Berm is approximately 1' high in places.

mkhashch\_s\_20120511\_191.jpg



Levee Mile Report Line	11
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control

10/20/2011 Large burrow located on waterside slope of levee.

mkhashch\_s\_20120511\_187.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	11
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control
10/20/2011 Large burrow located near crown on waterside slope of levee.	
mkhashch_s_20120511_188.jpg	



Levee Mile Report Line	11
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control
10/20/2011 Large burrow located on waterside slope of levee.	
mkhashch_s_20120511_189.jpg	



Levee Mile Report Line	14
Start Levee Mile	2.10
End Levee Mile	2.10
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
05/11/2011 Damage seen in photo continues down the slope as if area was being used by equipment to access the bank.	
mkhashch_s_20120511_190.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 02 Paradise Cut			Right	4.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/17/2012 - 5/17/2012			
DWR Inspector	Max Khashchuk			
Accompanied By	Michael Moncrief MBK			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
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If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut				Right	4.03	05/17/2012 05/17/2012	Max Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.11	0.49	Earthen Levee	Encroachments	WS Ma	AT : Agricultural tilling Inspector Comments: Discing for weed control is creating a 2' scarp.	37.778969 ° -121.334198 °	37.783406 ° -121.338086 °	4 Y
DWR ID: DWR_RD2062_02_s_2012_4									
2	0.57	0.57	Earthen Levee	Encroachments	LS A/W Ma	PI : Pipe Inspector Comments: Drainage discharge pipe to Paradise Cut.	37.784356 ° -121.338975 °	37.784356 ° -121.338975 °	5
DWR ID: DWR_RD2062_02_s_2012_5									
3	0.76	0.76	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe	37.786122 ° -121.341572 °	37.786122 ° -121.341572 °	8
DWR ID: DWR_RD2062_02_s_2012_8									
4	1.40	1.40	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe Inspector Comments: Irrigation intake from Paradise Cut.	37.791831 ° -121.350424 °	37.791831 ° -121.350424 °	10
DWR ID: DWR_RD2062_02_s_2012_10									
5	1.67	1.67	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe Inspector Comments: Two irrigation intakes.	37.794032 ° -121.354406 °	37.794032 ° -121.354406 °	11
DWR ID: DWR_RD2062_02_s_2012_11									
6	2.04	2.04	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Burrow activity that appears to be active, no rodents seen.	37.797060 ° -121.359929 °	37.797060 ° -121.359929 °	12 Y
DWR ID: DWR_RD2062_02_s_2012_12									
7	2.10	2.10	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Single large burrow, appears to be active.	37.797558 ° -121.360815 °	37.797558 ° -121.360815 °	18 Y
DWR ID: DWR_RD2062_02_s_2012_18									
8	2.19	2.19	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large single active burrow.	37.798304 ° -121.362138 °	37.798304 ° -121.362138 °	19 Y
DWR ID: DWR_RD2062_02_s_2012_19									
9	2.19	2.19	Earthen Levee	Animal Control	WS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Single active burrow on water side.	37.798304 ° -121.362138 °	37.798304 ° -121.362138 °	20
DWR ID: DWR_RD2062_02_s_2012_20									
10	2.54	3.94	Earthen Levee	Encroachments	LS Ma	AT : Agricultural tilling Inspector Comments: Discing of the levee slope is the district's vegetation control method. Over time this could degrade the levee slope and create an integrity issue.	37.801211 ° -121.367142 °	37.808230 ° -121.390260 °	6 Y
DWR ID: DWR_RD2062_02_s_2012_6									
11	2.81	2.81	Earthen Levee	Crown Surface / Depressions / Rutting	LS Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: Minor pothole that needs to be filled before it gets worse.	37.803447 ° -121.371092 °	37.803447 ° -121.371092 °	21 Y
DWR ID: DWR_RD2062_02_s_2012_21									
12	2.89	2.89	Earthen Levee	Trim / Thin Trees	WS Ma	T5 : Tree stumps. Inspector Comments: Three small tree stumps.	37.803827 ° -121.372424 °	37.803827 ° -121.372424 °	3 Y
DWR ID: DWR_RD2062_02_s_2012_3									

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	05/17/2012 05/17/2012	Max Khashchuk

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
13	2.94	2.94	Earthen Levee	Trim / Thin Trees	WS N Ma	T5 : Tree stumps. Inspector Comments: Four small oak stumps on levee slope.	37.804060 ° -121.373245 °	37.804060 ° -121.373245 °	13 Y
DWR ID: DWR_RD2062_02_s_2012_13									
14	3.03	3.03	Earthen Levee	Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.804452 ° -121.374903 °	37.804452 ° -121.374903 °	14
DWR ID: DWR_RD2062_02_s_2012_14									
15	3.07	3.07	Earthen Levee	Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.804481 ° -121.375510 °	37.804481 ° -121.375510 °	15
DWR ID: DWR_RD2062_02_s_2012_15									
16	3.12	3.12	Earthen Levee	Trim / Thin Trees	LS N Ma	T5 : Tree stumps. Inspector Comments: Four small stumps on levee slope.	37.804473 ° -121.376528 °	37.804473 ° -121.376528 °	16
DWR ID: DWR_RD2062_02_s_2012_16									
17	3.15	3.55	Earthen Levee	Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.805117 ° -121.376493 °	37.805705 ° -121.384045 °	40
DWR ID: DWR_RD2062_02_s_2012_40									
18	3.27	3.28	Supplemental	DWR Erosion Survey	WS M Ma	Inspector Comments: 09/02/2011: : No significant changes observed on site from last visit.09/22/2010: No significant changes observed on site. The fencing located on the berm was removed. Levee slope and berm area 10 feet from the levee toe are bare of any vegetation. The 1- to 2 feet of near-vertical scarp on the levee toe is unchanged.03/09/2010: As discussed with Michael Moncrief of MBK Engineer, the district will address the site this year.7/27/2009: 1 to 2 feet of near-vertical scarp on the levee toe; damage was most likely caused by agricultural equipment during clearing or tilling operation; this is a maintenance-related issue. [2011 Site ID:RD2062U02RM2.14]	37.804604 ° -121.379454 °	37.804604 ° -121.379454 °	2 Y
DWR ID: DWR_RD2062_02_s_2012_2									
19	3.30	3.30	Earthen Levee	Encroachments	LS A/W Ma	PI : Pipe Inspector Comments: Two discharge pipes. Third pipe was capped and plugged. Project to relocate pumps because of seepage boils, was permitted.	37.804748 ° -121.379697 °	37.804748 ° -121.379697 °	17
DWR ID: DWR_RD2062_02_s_2012_17									
20	3.44	3.53	Supplemental	DWR Erosion Survey	WS M Ma	Inspector Comments: 09/02/2011: No significant changes observed on site from the previous visit.09/22/2010: No significant changes observed on site. The foot-high near-vertical scarp still exists on levee toe. There is little to no vegetation on the slope.03/09/2010: As discussed with Michael Moncrief of MBK, site will be addressed this year.07/27/2009: 1 to 2 feet of near-vertical scarp on levee toe; damage was most likely caused by farming equipment during clearing or tilling operation; this is a maintenance-related issue. [2011 Site ID:RD2062U02RM1.94]	37.805422 ° -121.383173 °	37.805422 ° -121.383173 °	1 Y
DWR ID: DWR_RD2062_02_s_2012_1									
21	3.45	3.45	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.805455 ° -121.382235 °	37.805455 ° -121.382235 °	41 Y
DWR ID: DWR_RD2062_02_s_2012_41									

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway					Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 02 Paradise Cut					Right	4.03	05/17/2012 05/17/2012		Max Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
22	3.68	3.68	Earthen Levee	Trim / Thin Trees	WS	N	T5 : Tree stumps. Inspector Comments: Small stump on slope.	37.806231 ° -121.386209 °	37.806231 ° -121.386209 °	9 Y
DWR ID: DWR_RD2062_02_s_2012_9										

**\* Location**

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CR : Crown

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.11
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Encroachments

10/20/2011 Photo shows issue caused by discing (left side of photo) of the weeds on the waterside.

mkhashch\_s\_20120511\_206.jpg



Levee Mile Report Line	6
Start Levee Mile	2.04
End Levee Mile	2.04
Location	Land Side
Category	Earthen Levee
Item	Animal Control

10/20/2011 Active burrow located next to vegetation in photo.

mkhashch\_s\_20120511\_210.jpg



Levee Mile Report Line	7
Start Levee Mile	2.10
End Levee Mile	2.10
Location	Land Side
Category	Earthen Levee
Item	Animal Control

10/20/2011 Photo shows single large burrow, which appears to be active.

mkhashch\_s\_20120511\_211.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	7
Start Levee Mile	2.10
End Levee Mile	2.10
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of multiple burrow holes; the previously large burrow hole was not found at the time, but rodent activity is still present. 05/17/2012

mkhashch\_s\_20120518\_382.jpg



Levee Mile Report Line	8
Start Levee Mile	2.19
End Levee Mile	2.19
Location	Land Side
Category	Earthen Levee
Item	Animal Control

10/20/211 Single large burrow on landside, appears to be active.

mkhashch\_s\_20120511\_212.jpg



Levee Mile Report Line	10
Start Levee Mile	2.54
End Levee Mile	3.94
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Discing on levee slopes has created a substantial vertical scarp.

mkhashch\_s\_20120511\_207.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	10
Start Levee Mile	2.54
End Levee Mile	3.94
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Discing on levee slopes has created two substantial vertical scarps.

mkhashch\_s\_20120511\_208.jpg



Levee Mile Report Line	11
Start Levee Mile	2.81
End Levee Mile	2.81
Location	Land Side
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

10/20/2011 Minor pothole, shows evidence of holding water.

mkhashch\_s\_20120511\_213.jpg



Levee Mile Report Line	12
Start Levee Mile	2.89
End Levee Mile	2.89
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Three small stumps on levee slope.

mkhashch\_s\_20120511\_205.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	13
Start Levee Mile	2.94
End Levee Mile	2.94
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on waterside slope.  
05/17/2012

mkhashch\_s\_20120518\_383.jpg



Levee Mile Report Line	18
Start Levee Mile	3.27
End Levee Mile	3.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of scarp caused by a  
maintenance equipment.

mkhashch\_s\_20120511\_201.jpg



Levee Mile Report Line	18
Start Levee Mile	3.27
End Levee Mile	3.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of scarp.

mkhashch\_s\_20120511\_202.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	18
Start Levee Mile	3.27
End Levee Mile	3.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of site.

mkhashch\_s\_20120511\_203.jpg



Levee Mile Report Line	18
Start Levee Mile	3.27
End Levee Mile	3.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of site.

mkhashch\_s\_20120511\_204.jpg



Levee Mile Report Line	20
Start Levee Mile	3.44
End Levee Mile	3.53
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of site. Note the vertical scarp at the toe.

mkhashch\_s\_20120511\_197.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	20
Start Levee Mile	3.44
End Levee Mile	3.53
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of site.

mkhashch\_s\_20120511\_198.jpg



Levee Mile Report Line	20
Start Levee Mile	3.44
End Levee Mile	3.53
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of site.

mkhashch\_s\_20120511\_199.jpg



Levee Mile Report Line	20
Start Levee Mile	3.44
End Levee Mile	3.53
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of site.

mkhashch\_s\_20120511\_200.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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U : Unacceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	21
Start Levee Mile	3.45
End Levee Mile	3.45
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of bushy trees at levee toe obstructing visibility. 05/17/2012

mkhashch\_s\_20120518\_384.jpg



Levee Mile Report Line	22
Start Levee Mile	3.68
End Levee Mile	3.68
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/11/2011 Small stump in waterside slope.

mkhashch\_s\_20120511\_209.jpg



**\* Location**

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**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 03 Old River			Left	5.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/17/2012 - 5/17/2012			
DWR Inspector	Max Khashchuk			
Accompanied By	Michael Moncrief MBK			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.03	0.07	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/23/2011: Site is at the upstream of a drainage ditch. [2011 Site ID:RD2062U03RM29.93]	37.809673 ° -121.390321 °	37.809673 ° -121.390321 °	1 Y
DWR ID: DWR_RD2062_03_s_2012_1										
2	0.10	0.11	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/23/2011: Hard to view the erosion because of the dense vegetation and trees on site. The site is under the bush, close to the tree. [2011 Site ID:RD2062U03RM30.02]	37.810052 ° -121.388847 °	37.810052 ° -121.388847 °	2 Y
DWR ID: DWR_RD2062_03_s_2012_2										
3	0.17	0.17	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.810194 ° -121.387602 °	37.810194 ° -121.387602 °	6 Y
DWR ID: DWR_RD2062_03_s_2012_6										
4	0.18	0.18	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/23/2011: The protection at the levee toe has been washed away. [2011 Site ID:RD2062U03RM30.1]	37.810468 ° -121.387492 °	37.810468 ° -121.387492 °	4 Y
DWR ID: DWR_RD2062_03_s_2012_4										
5	0.23	0.32	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/23/2011: No significant changes observed on site. Dense vegetation visible along the water line. 09/07/2010: No significant changes observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.08/06/2010: Recommended as local maintenance issue, per CLRO.03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of site, per CLRO CES Evaluation 2008 Report; previously rated "M".11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2011 Site ID:RD2062U03RM30.19]	37.810609 ° -121.385879 °	37.810609 ° -121.385879 °	5 Y
DWR ID: DWR_RD2062_03_s_2012_5										
6	0.35	0.35	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/23/2011: The site is right at the downstream of a river bend. [2011 Site ID:RD2062U03RM30.27]	37.811281 ° -121.384461 °	37.811281 ° -121.384461 °	24 Y
DWR ID: DWR_RD2062_03_s_2012_24										
7	0.46	0.46	Earthen Levee	Encroachments	WS	M Ma	PR : Prunings Inspector Comments: Bamboo prunings left on levee slope. 10/20/2011 Prunings are still present. 05/11/2011 Prunings are still present, item first noted in Fall 2010 inspection.	37.811805 ° -121.382932 °	37.811805 ° -121.382932 °	8 Y
DWR ID: DWR_RD2062_03_s_2012_8										
8	0.52	0.52	Earthen Levee	Encroachments	WSA/W	PI : Pipe En	Inspector Comments: Water intake pump station; 16" pipe	37.812687 ° -121.382800 °	37.812687 ° -121.382800 °	52 Y
DWR ID: DWR_RD2062_03_s_2012_52										

**\* Location**

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CR : Crown

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
9	0.56	0.57	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 08/23/2011: No significant changes observed on site.09/07/2010: No significant changes observed on site. Much of the placed rip rap revetment has slid. It is no longer adequately protecting the slope.08/06/2010: Recommended as local maintenance issue, per CLRO Report.03/09/2010: As discussed with Michael Moncrief of MBK, site will be 'addressed' this year.09/29/2009: No major change observed since last visit; a section of the rip rap has slipped, exposing a levee section that has eroded; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM30.43,LM0.63; previously rated "U".11/05/2008: Site is located inside of a bend; scarp looks to be into the levee prism; piles of concrete chunks placed on the slope, with some of them already starting to slide. [2011 Site ID:RD2062U03RM30.43]	37.813070 ° -121.383100 °	37.813070 ° -121.383100 °	27 Y
DWR ID: DWR_RD2062_03_s_2012_27										
10	0.56	0.56	Earthen Levee	Encroachments	WS	M	DE : Debris Inspector Comments: Trash and debris needs to be removed.	37.813214 ° -121.382989 °	37.813214 ° -121.382989 °	9 Y
DWR ID: DWR_RD2062_03_s_2012_9										
11	0.61	0.61	Earthen Levee	Trim / Thin Trees	WS	N	T5 : Tree stumps. Inspector Comments: Stump in slope.	37.813570 ° -121.382094 °	37.813570 ° -121.382094 °	10 Y
DWR ID: DWR_RD2062_03_s_2012_10										
12	0.65	0.65	Earthen Levee	Trim / Thin Trees	WS	N	T5 : Tree stumps. Inspector Comments: 2 stumps on waterside slope.	37.813894 ° -121.381680 °	37.813894 ° -121.381680 °	12 Y
DWR ID: DWR_RD2062_03_s_2012_12										
13	0.82	0.82	Earthen Levee	Erosion / Bank Caving	WS	M	E2 : Schedule repair of erosion site prior to the next inspection.	37.816315 ° -121.381587 °	37.816315 ° -121.381587 °	11 Y
DWR ID: DWR_RD2062_03_s_2012_11										
14	1.20	1.21	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 08/23/2011: No significant changes observed on site.09/07/2010: No significant changes observed on site. Much of the seasonal grass along the slope was cleared. Site consists of an existing scalloped erosion approximately 30 feet long by 5 feet wide at its widest opening. The lateral crack is extended outwards along the middle slope. There is a 1 to 2 feet of differential settlement that could further develop into a shallow slide.08/06/2010: Recommended as local maintenance issue, per CLRO.03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' this year.09/28/2009: No major change observed; section of rip rap has slipped, creating a terraced effect; dense vegetation growth; recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.12,LM1.25; previously rated "U".09/14/2006: 1-2' into prism. [2011 Site ID:RD2062U03RM31.12]	37.819290 ° -121.378880 °	37.819290 ° -121.378880 °	29 Y
DWR ID: DWR_RD2062_03_s_2012_29										

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River					Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
24	2.90	2.90	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.816330 ° -121.352775 °	37.816330 ° -121.352775 °	23
DWR ID: DWR_RD2062_03_s_2012_23										
25	3.07	3.07	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.817791 ° -121.350088 °	37.817791 ° -121.350088 °	25
DWR ID: DWR_RD2062_03_s_2012_25										
26	3.14	3.14	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.818532 ° -121.349510 °	37.818532 ° -121.349510 °	26
DWR ID: DWR_RD2062_03_s_2012_26										
27	3.44	3.44	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.819172 ° -121.345760 °	37.819172 ° -121.345760 °	28
DWR ID: DWR_RD2062_03_s_2012_28										
28	3.80	3.80	Earthen Levee	Trim / Thin Trees	WS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Beaver damaged a tree; remove from slope.	37.817160 ° -121.340933 °	37.817160 ° -121.340933 °	53 Y
DWR ID: DWR_RD2062_03_s_2012_53										
29	4.16	4.16	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.820812 ° -121.338699 °	37.820812 ° -121.338699 °	33
DWR ID: DWR_RD2062_03_s_2012_33										
30	4.82	4.82	Earthen Levee	Trim / Thin Trees	LS	N Ma	T5 : Tree stumps. Inspector Comments: 14" stump on landside slope.	37.813986 ° -121.335821 °	37.813986 ° -121.335821 °	7 Y
DWR ID: DWR_RD2062_03_s_2012_7										
31	4.83	4.83	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.812791 ° -121.336074 °	37.812791 ° -121.336074 °	43 Y
DWR ID: DWR_RD2062_03_s_2012_43										
32	5.45	5.45	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Two large irrigation intake pumps and pipes.	37.807321 ° -121.331292 °	37.807321 ° -121.331292 °	34
DWR ID: DWR_RD2062_03_s_2012_34										

**\* Location**

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.07
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of erosion at the most upstream of the site

mkhashch\_s\_20120511\_244.jpg



Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.07
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion

mkhashch\_s\_20120511\_245.jpg



Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.07
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the erosion near the end of the site

mkhashch\_s\_20120511\_246.jpg



**\* Location**

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**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.07
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion. Note the dense vegetation.

mkhashch\_s\_20120511\_247.jpg



Levee Mile Report Line	2
Start Levee Mile	0.10
End Levee Mile	0.11
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of the site

mkhashch\_s\_20120511\_248.jpg



Levee Mile Report Line	2
Start Levee Mile	0.10
End Levee Mile	0.11
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of the site

mkhashch\_s\_20120511\_249.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	2
Start Levee Mile	0.10
End Levee Mile	0.11
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Note the vegetation and trees on site

mkhashch\_s\_20120511\_250.jpg



Levee Mile Report Line	2
Start Levee Mile	0.10
End Levee Mile	0.11
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site

mkhashch\_s\_20120511\_251.jpg



Levee Mile Report Line	4
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of the site. The erosion is vertical

mkhashch\_s\_20120511\_252.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion

mkhashch\_s\_20120511\_253.jpg



Levee Mile Report Line	4
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion

mkhashch\_s\_20120511\_254.jpg



Levee Mile Report Line	4
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Note the protection downstream of the erosion

mkhashch\_s\_20120511\_255.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	5
Start Levee Mile	0.23
End Levee Mile	0.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of the 5-ft vertical scarp .

mkhashch\_s\_20120511\_256.jpg



Levee Mile Report Line	5
Start Levee Mile	0.23
End Levee Mile	0.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Another view of the same 5-ft scarp.

mkhashch\_s\_20120511\_257.jpg



Levee Mile Report Line	5
Start Levee Mile	0.23
End Levee Mile	0.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site with dense vegetation.

mkhashch\_s\_20120511\_258.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	5
Start Levee Mile	0.23
End Levee Mile	0.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site with dense vegetation

mkhashch\_s\_20120511\_259.jpg



Levee Mile Report Line	6
Start Levee Mile	0.35
End Levee Mile	0.35
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of the erosion. Note the broken concrete near the site.

mkhashch\_s\_20120511\_268.jpg



Levee Mile Report Line	6
Start Levee Mile	0.35
End Levee Mile	0.35
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

downstream view of the site

mkhashch\_s\_20120511\_269.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	6
Start Levee Mile	0.35
End Levee Mile	0.35
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion. Note the protection at the upstream of the site.

mkhashch\_s\_20120511\_270.jpg



Levee Mile Report Line	6
Start Levee Mile	0.35
End Levee Mile	0.35
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site

mkhashch\_s\_20120511\_271.jpg



Levee Mile Report Line	7
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Water Side
Category	Earthen Levee
Item	Encroachments

05/11/2011 Bambo prunings have not been removed. This item was noted in the Fall 2010 inspection.

mkhashch\_s\_20120511\_261.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2012

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	7
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Water Side
Category	Earthen Levee
Item	Encroachments

10/20/2011 Bamboo (Arundo) cuttings still present issue is not being addressed.

mkhashch\_s\_20120511\_262.jpg



Levee Mile Report Line	9
Start Levee Mile	0.56
End Levee Mile	0.57
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the site.

mkhashch\_s\_20120511\_272.jpg



Levee Mile Report Line	9
Start Levee Mile	0.56
End Levee Mile	0.57
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Previously placed rip rap slipped, exposing the underlying soils and creating a pocket.

mkhashch\_s\_20120511\_273.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	9
Start Levee Mile	0.56
End Levee Mile	0.57
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Rip rap no longer adequately protecting levee slope.

mkhashch\_s\_20120511\_274.jpg



Levee Mile Report Line	9
Start Levee Mile	0.56
End Levee Mile	0.57
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of the site.

mkhashch\_s\_20120511\_275.jpg



Levee Mile Report Line	10
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Water Side
Category	Earthen Levee
Item	Encroachments

05/11/2011 Trash mixed in with concrete debris pile, needs to be removed.

mkhashch\_s\_20120511\_263.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	11
Start Levee Mile	0.61
End Levee Mile	0.61
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/11/2011 Stump in slope, new growth in center of photo is at the location of the stump.

mkhashch\_s\_20120511\_264.jpg



Levee Mile Report Line	13
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Slope erosion from crown surface runoff and foot traffic.

mkhashch\_s\_20120511\_265.jpg



Levee Mile Report Line	13
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

10/20/2011 Photo shows no change in condition since last reported in the Spring 2011 inspection.

mkhashch\_s\_20120511\_266.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	14
Start Levee Mile	1.20
End Levee Mile	1.21
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Existing scalloped erosion is immediately downstream of rip rap section.

mkhashch\_s\_20120511\_276.jpg



Levee Mile Report Line	14
Start Levee Mile	1.20
End Levee Mile	1.21
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the site

mkhashch\_s\_20120511\_277.jpg



Levee Mile Report Line	14
Start Levee Mile	1.20
End Levee Mile	1.21
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Note the lateral crack along the middle slope

mkhashch\_s\_20120511\_278.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	14
Start Levee Mile	1.20
End Levee Mile	1.21
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site just above existing rip rap.

mkhashch\_s\_20120511\_279.jpg



Levee Mile Report Line	16
Start Levee Mile	1.37
End Levee Mile	1.37
Location	Water Side
Category	Earthen Levee
Item	Vegetation

05/11/2011 Elderberry bush on water side slope.

mkhashch\_s\_20120511\_267.jpg



Levee Mile Report Line	17
Start Levee Mile	1.42
End Levee Mile	1.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the site where a small to medium sized Oak tree is located.

mkhashch\_s\_20120511\_280.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	17
Start Levee Mile	1.42
End Levee Mile	1.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A closer look of the site

mkhashch\_s\_20120511\_281.jpg



Levee Mile Report Line	17
Start Levee Mile	1.42
End Levee Mile	1.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Note existing broken concrete on the upper slope as well as on the lower slope and at the toe.

mkhashch\_s\_20120511\_282.jpg



Levee Mile Report Line	17
Start Levee Mile	1.42
End Levee Mile	1.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of the site.

mkhashch\_s\_20120511\_283.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	28
Start Levee Mile	3.80
End Levee Mile	3.80
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of damaged tree by beaver on waterside slope. 05/17/2012

mkhashch\_s\_20120518\_385.jpg



Levee Mile Report Line	30
Start Levee Mile	4.82
End Levee Mile	4.82
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

10/21/2011 Photo taken the next day. Stump can be seen in the lower center of the photo.

mkhashch\_s\_20120511\_260.jpg



Levee Mile Report Line	31
Start Levee Mile	4.83
End Levee Mile	4.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Animal burrow on levee slope.

mkhashch\_s\_20120511\_284.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	05/17/2012 05/17/2012	Max Khashchuk

Levee Mile Report Line	31
Start Levee Mile	4.83
End Levee Mile	4.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Animal burrows on levee slope.

mkhashch\_s\_20120511\_285.jpg



* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	N : Not Inspected/Rated	En : Enforcement
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	
	U : Unacceptable	